(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 9 September 2005 (09.09.2005)

PCT

(10) International Publication Number WO 2005/083014 A1

(51) International Patent Classification⁷:

C09D 1/00

(21) International Application Number:

PCT/IB2005/000131

(22) International Filing Date: 19 January 2005 (19.01.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: PCT/IB2004/000227

> 30 January 2004 (30.01.2004) $^{\mathrm{IB}}$

- (71) Applicant (for all designated States except US): MIL-LENNIUM CHEMICALS [GB/GB]; Grimsby North East, Lincolnshire DN41 8DP (GB).
- (72) Inventors; and
- Inventors/Applicants (for US only): GOODWIN, Graham [GB/GB]; 76 Blundell Avenue, Cleethorpes, N.E. Lincolnshire DN35 7PT (GB). STRATTON, John [GB/GB]; 59 Seaford Road, Cleethorpes, N.E. Lincolnshire DN35 ONE (GB). MCINTYRE, Robert [GB/GB]; 14 Bluestone Rise, Highfields, Louth LN11 9XZ (GB).

- (74) Agents: LE COUPANEC, Pascale et al.; Nony & Partners, 3 rue de Penthièvre, F-75008 Paris (FR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COATING COMPOSITION HAVING SURFACE DEPOLLUTING PROPERTIES

(57) Abstract: The present invention concerns a coating composition for the formation of an inorganic layer on the surface of a substrate, comprising at least -an efficient amount of photocatalytic titanium dioxide particles, -an opacifying agent, -particles of an inorganic binder, -an organic binder, and -a solvent, wherein said organic binder and photocatalytic titanium dioxide particles are present in a weight ratio, photocatalytic titanium dioxide/organic binder ranging from 0.1 to 6.